



**FSL-CONJ(1Biotin)-SC2-L1 #187786**

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**1. COMPANY DETAILS**

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**IDENTIFICATION**

**2. IDENTIFICATION OF THE MATERIAL**

**Product Names:** FSL-CONJ(1Biotin)-SC2-L1

**Other Names:** FSL-biotin

**Manufacturer's Product Code:** 187786 FSL-CONJ(1Biotin)-SC2-L1

187786-2 FSL-CONJ(1Biotin)-SC2-L1 (2 mg)

187786-1 FSL-CONJ(1Biotin)-SC2-L1 (1 mg)

**United Nations Number:** None allocated

**Dangerous Good Class:** None allocated

**Hazchem Code:** None allocated

**Toxic Substances Schedule:** Not listed

**Uses:** To modify the surface of cells, liposomes or virions with biotin.  
For *research* use only

### 3. PHYSICAL DESCRIPTION/PROPERTIES

**Appearance:** White or pale yellow , non crystalline, lyophilised powder  
**Odour:** Odourless  
**Boiling Point/Melting Point:** Not determined  
**Specific Gravity:** Not determined  
**Vapour Pressure:** Negligible  
**Flashpoint:** Not determined  
**Flammability Limits:** Not determined  
**Solubility in Water:** High – disperses as a clear solution  
**Reactivity:** None known  
**Incompatibility (materials to avoid):** Strong acidic or basic reagents, oxidants, unstable in water  
**Hazardous Decomposition or By-products:** Not determined  
**Hazardous polymerisation:** Will not occur

### 4. COMPOSITION/INFORMATION ON INGREDIENTS

**General Description:** FSL-CONJ(1Biotin)-SC2-L1 is comprised of a monomer of biotin (vitamin B7) conjugated to a carboxymethylglycine based linker in turn conjugated to an activated adipate derivative of dioleoylphosphatidylethanolamine .

<i>Name:</i>	MW	CAS number	Brutto formula	Proportion
FSL-CONJ(1Biotin)-SC2-L1	2057.34	1142940-04-2	C91H150N17O32PS	100%
sodium salt	2079.32		C91H149N17NaO32PS	

Note: CAS numbers relate to the “free form”, i.e. the acid, not the salt, of each construct.

## HEALTH HAZARD INFORMATION

### 5. HEALTH EFFECTS

- Routes of Entry:** May enter the body through ingestion, skin and eye contact. If accidentally exposed any symptoms or untoward health effects are unlikely.
- Toxicity:** We are not aware of any toxicity for this product. These constructs and analogues have been intravenously injected into experimental animals and no adverse consequences have been observed.
- Health Hazard:** We are not aware of any reported or unreported health hazards for this product
- Carcinogenicity:** Not listed
- Signs/Symptoms of Exposure:** Unknown
- Medical Conditions Generally Aggravated by Exposure:** Unknown
- Potential Health Hazard:** Substances may not be used as drugs, cosmetics, food additives or household chemicals. For Research Use Only
- Chronic:** None known or expected

### 6. FIRST AID MEASURES

- Eye:** Flush with water for at least 15 minutes. If symptoms arise seek medical attention.
- Swallowed:** DO NOT INDUCE VOMITING. Wash out mouth with water and give water to drink. If symptoms arise seek medical attention.
- Skin:** Remove contaminated clothing. Wash affected area with soap and water for at least 15 minutes. If symptoms arise seek medical attention.
- Inhaled:** Remove to fresh air. Give oxygen if breathing is difficult and seek medical attention.
- First Aid Facilities:** Ensure water is available at point of use.
- Advice To Doctor:** Treat symptomatically. There is no known or expected toxicity for this substance.

## PRECAUTIONS FOR USE

### 7. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure Standards:** No exposure limits set
- Engineering Controls:** None under normal operating conditions
- Personal Protection:** Wear protective gloves and safety glasses when handling this product. Do not pipette by mouth.
- Precautions for Safe Handling and Use/ Control Measures:** Ventilation – not necessary  
No special precautions required  
Clean up spills with soap and water
- Flammability:** Combustible

## SAFE HANDLING INFORMATION

### 8. STORAGE AND TRANSPORT

- Classification:** Not classified as a dangerous good
- Store powder below minus 10 degrees C (protected from light).
- Opened product must be stored in a desiccator below minus 10 degrees C.
- Storage:** Product reconstituted in saline/PBS should be kept sterile and stored for no longer than 1 month at 4 degrees C. Stored solutions should be sonicated for 60 seconds before re-use.
- Product reconstituted in water can be stored for no longer than 1 day at 4 degrees C or below.
- Transport:** Transport below 25 degrees C. Can be held at 4 degrees C for up to one month in temporary storage.
- Stability:** Unopened vials are expected to be stable as powder for 2 years at below minus 10 degrees C.
- Opened vials are expected to be stable as powder for >12 months if stored dry (desiccated) and at below minus 10 degrees C.
- Reconstituted solutions (2 mg/ml) are expected to be stable for 24 months if stored at below minus 10 degrees C.
- Product reconstituted in water is unstable
- Stability data is not yet available for storage of reconstituted product in frozen state.
- Subsidiary Risk:** None allocated
- Packing Group:** None allocated
- Hazchem Code:** None allocated

### 9. SPILLS AND DISPOSAL

- Minor Spills:**
- Wear protective gloves and safety glasses.
  - Soak up spills with absorbent material i.e. paper towels or vermiculite.
  - Place spilled material in clean, dry, sealed container for disposal.
  - Decontaminate area with 1% sodium hypochlorite in water.
- Major Spills:**
- Wear protective gloves and safety glasses.
  - Contain and absorb spills using earth, sand or inert absorbent.
  - Prevent material entering open drains and waterways.
  - Collect residues and seal in labelled drums for disposal.
  - Decontaminate area with 1% sodium hypochlorite in water.
- Disposal:** In accordance with state land and waste management authority. For good environmental practice avoid discharge to waterways.

### 10. FIRE/EXPLOSION HAZARD

**Fire/Explosion Hazard** Combustible, not explosive

## 11. ECOLOGICAL INFORMATION AND DISPOSAL CONSIDERATIONS

**Ecotoxicity:** None known. Unlikely to be harmful to the environment.  
**Environmental Fate:** Degraded by micro-organisms

## 12. REGULATORY INFORMATION

**Poisons Schedule Number:** Not scheduled  
**Dangerous Good Class:** None allocated  
**Subsidiary Risk:** None allocated  
**Packing Group:** None allocated  
**Hazchem Code:** None allocated

## 13. CONTACT POINT

**Further Information:** Call +64 9 921 9708 or +64 9 921 9710 during working hours or +64 21 71 5494 after hours

**Website Information:** Further information is available at [www.KODEBiotech.com](http://www.KODEBiotech.com)

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## 14. DOCUMENT CONTROL

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