

## Ganglioside GD1b Mixture (sodium salt)

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 19553-76-5                                               |
| Formula:          | C84H146N4O392Na                                          |
| Molecular Weight: | 1882.1                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |

### Biological Description

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Ganglioside GD1b is an acidic glycosphingolipid that contains two sialic acid residues linked to an inner galactose unit. It is a component of plasma membranes where it packs densely with cholesterol to form lipid microdomains that modulate both intra- and intercellular signaling events. The concentration of ganglioside GD1b in human brain increases with age, constituting 7.85% of total sialic acid in the brain of 0- to 10-year-old subjects and 20.29% in 11- to 30-year-old subjects. Ganglioside GD1b mixture contains ganglioside GD1b molecular species with C18:1 and C20:1 fatty acyl chains. |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility Information

|            |                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------|
| Solubility | H2O: Soluble<br>Chloroform:Methanol (2:1): Soluble<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-----------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.5313 mL | 2.6566 mL | 5.3132 mL |
| 5 mM  | 0.1063 mL | 0.5313 mL | 1.0626 mL |
| 10 mM | 0.0531 mL | 0.2657 mL | 0.5313 mL |
| 50 mM | 0.0106 mL | 0.0531 mL | 0.1063 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

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