# Product Data Sheet

## Chemical Properties

<table>
<thead>
<tr>
<th><strong>Product Name</strong></th>
<th>Fosaprepitant dimeglumine salt</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cas No.</strong></td>
<td>265121-04-8</td>
</tr>
<tr>
<td><strong>M.Wt</strong></td>
<td>1004.83</td>
</tr>
<tr>
<td><strong>Formula</strong></td>
<td>C37H56F7N6O16P</td>
</tr>
</tbody>
</table>

**Chemical Name:**  
\[5-\{[(2R,3S)-2-\{(1R)-1-[3,5-bis(trifluoromethyl)phenyl]ethoxy]-3-(4-fluorophenyl)morpholin-4-yl]methyl]-3-oxo-1H-1,2,4-triazol-2-yl\}phosphonic acid;(2R,3R,4R,5S)-6-(methylamino)hexane-1,2,3,4,5-pentol

**Canonical SMILES:**  
CC(C1=CC(=CC(=C1)C(F)(F)F)C(F)(F)F)OC2C(N(CCO2)CC3=NC(=O)N(N3)P(=O)(O)O)C4=CC=C(C=C4)F-CNCC(C(C(C(CO)O)O)O)O-CNCC(C(C(C(CO)O)O)O)O

**Solubility:** Soluble in DMSO > 10 mM

**Storage:** Store at -20°C

**General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

**Shopping Condition:** Evaluation sample solution: ship with blue ice  
All other available size: ship with RT, or blue ice upon request

## Biological Activity

### Targets
- Substance P/NK1 Receptor

### Pathways
- Neuroscience >> Substance P/NK1 Receptor

### Description
Fosaprepitant dimeglumine salt (L-758,298 MK-0517) is an antagonist of neurokinin-1[1].
Fosaprepitant dimeglumine salt has shown the pharmacodynamic function by its active metabolite aprepitant. Fosaprepitanot dimeglumine salt has been found to be a highly selective antagonist of the NK-1 receptor and inhibit the cation of substance P. In addition, Fosaprepitant dimeglumine salt has been exhibited to have the effect on cisplatin induced emesis in the classical ferret model. Besides, because of the brain penetrating of aprepitant, Fosaprepitant dimeglumine salt has been revealed to have a very high affinity for the NK-1 receptor and increase the efficacy by dexamethasone, granisetron and so on. Fosaprepitant dimeglumine salt has been evaluated to use in the prevention of chemotherapy-induced nausea and vomiting (CINV) by combination with a 5-HT3 antagonist and a steroid [1].

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.