Product Data Sheet

Chemical Properties

- **Product Name:** Erythromycin A enol ether
- **Cas No.:** 33396-29-1
- **M.Wt:** 715.9
- **Formula:** C37H65NO12
- **Synonyms:** BRL 46357ER, EM-201
- **Chemical Name:** 8,9-didehydro-9-deoxo-6-deoxy-6,9-epoxy-erythromycin
- **Canonical SMILES:**

```
O=C1[C@@H]((C@H)([C@@H]((C@)[H])([C@])2(CC(C)=C([C@@H][(C@H)]((C@))2(C@)(O1)CC)O)O2)C)O[C@]3([C@@H][O1])((C@)(O3)C)N(C)(C)O)[H])C)O[C@@]4(O[C@H]([C@@](C4)OC)O)C)O[C@@][H])
```
- **Solubility:** Soluble in DMSO
- **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:** GPCR/G protein
- **Pathways:** Motilin Receptor
- **Description:**

Erythromycin A enol ether, also known as 8,9-anhydroerythromycin A 6,9 hemiketal, is a kind of catabolite of erythromycin A without its antibiotic properties. Erythromycin A enol ether functions as a β-turn mimic of the peptide hormone motilin which leads to duodenal contractions. Erythromycin A enol ether is also the agent of gastrointestinal
Motilin is a kind of polypeptide hormone with 22-amino acid belonging to the motilin family. Motilin could increase the migrating myoelectric complex of gastrointestinal motility, and stimulate the pepsin production. Motilin could also improve peristalsis in the small intestine and empty the gut for the next meal. Besides, motilin could facilitate the release of somatostatin and pancreatic polypeptide.

In Vitro: No data available.
In Vivo: No data available.
Clinical trial: No data available.

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. Short-term 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.