



LKT Laboratories, Inc.

## Aprepitant

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)

Web: [lktlabs.com](http://lktlabs.com)

### Product Information

**Product ID** A6368

**CAS No.** 170729-80-3

**Chemical Name** 5-[[[(2R,3S)-2-[(1R)-1-[3,5-Bis(trifluoromethyl)phenyl]ethoxy]-3-(4-fluorophenyl)-4-morpholinyl]methyl]-1,2-dihydro-3H-1,2,4-triazol-3-one

**Synonym** (2R)-[[(1R)-3,5-bis(trifluoromethyl)phenylethoxy]-(3S)-(4-fluoro)phenyl-4-(3-oxo-1,2,4-triazol-5-yl)methyl morpholine, Emend, L-754,030, MK-869, MK-0869, ONO-7436

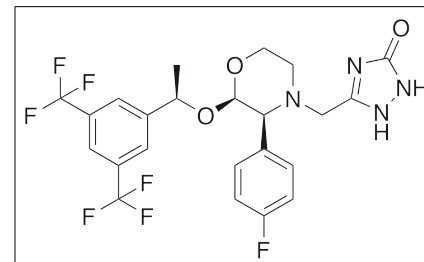
**Formula** C<sub>23</sub>H<sub>21</sub>F<sub>7</sub>N<sub>4</sub>O<sub>3</sub>

**Formula Wt.** 534.43

**Melting Point** 255° C

**Purity** ≥98%

**Solubility**



**Bulk quantities available upon request**

**Product ID** **Size**

A6368 5 mg

A6368 10 mg

A6368 25 mg

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Aprepitant is an inhibitor of the tachykinin/neurokinin 1 (NK1) receptor that acts as an antiemetic or anti-nausea medicine. Aprepitant also exhibits some anticancer chemotherapeutic and anti-angiogenic benefit through its inhibition of NK1 receptors, preventing binding of substance P and inhibiting substance P's proliferative and pro-angiogenic signaling cascade. This compound may also display some antidepressant activity, although in vivo and clinical results have been mixed.

**References** Muñoz M, Martinez-Armesto J, Coveñas R. NK-1 receptor antagonists as antitumor drugs: a survey of the literature from 2000 to 2011. *Expert Opin Ther Pat.* 2012 Jul;22(7):735-46. PMID: 22697287.

Massaro AM, Lenz KL. Aprepitant: a novel antiemetic for chemotherapy-induced nausea and vomiting. *Ann Pharmacother.* 2005 Jan;39(1):77-85. PMID: 15562136.

Kramer MS, Cutler N, Feighner J, et al. Distinct mechanism for antidepressant activity by blockade of central substance P receptors. *Science.* 1998 Sep 11;281(5383):1640-5. PMID: 9733503.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.