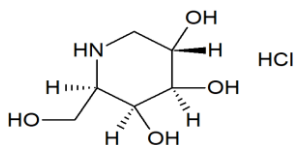


# Migalastat hydrochloride

**ALTERNATE NAME:** 1,5-Dideoxy-1,5-imino-D-galactitol  
AT1001  
1-Deoxygalactostatin  
1-Deoxygalactonojirimycin  
AT-1001  
GR181413A

**CATALOG #:** B2404-5 5 mg  
B2404-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub> • HCl

**MOLECULAR WEIGHT:** 199.6

**CAS NUMBER:** 75172-81-5

**APPEARANCE:** Yellow solid

**PURITY:** ≥98%

**SOLUBILITY:** ~10 mg/ml DMSO

**STORAGE CONDITIONS:** -20°C

**DESCRIPTION:** Migalastat hydrochloride is a pharmacological chaperone that acts as a selective and competitive inhibitor of α-galactosidase (IC<sub>50</sub> = 40 nM). At subinhibitory concentrations, 1-Deoxygalactonojirimycin binds to α-galactosidase and chaperones unstable enzyme variants through the endoplasmic reticulum, allowing its movement into lysosomes.

**REFERENCES:** Ishii, S., et al. (2009). J. Pharmacol. Exp. Ther. 328, 723-731

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Beta Galactosidase (β-Gal) Activity Assay Kit (Fluorometric) (K821)  
Miglitol (2335)  
Castanospermine (2293)  
Alpha Galactosidase (α-Gal) Activity Assay Kit (Fluorometric) (K407)  
Beta Galactosidase (β-Gal) Inhibitor Screening Kit (Fluorometric) (K827)  
Conduritol B epoxide (9574)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*