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## Product Data Sheet

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Product Name: Antiulcer Agent 1

Cat. No.: GC33655

### Chemical Properties

Cas. No. 76001-09-7

SMILES O=C(N)C1=CC=CC(NCC(NCCCC2=CC=C(OC)C(OC)=C2)=O)=C1

Formula  $C_{19}H_{23}N_3O_4$  M.Wt 357.4

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.

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

Structure

### Background

3-[[2-[[2-(3,4-Dimethoxyphenyl)ethyl]amino]-2-oxoethyl]amino]benzamide is a 2-(3,4-dimethoxyphenyl)ethylamine derivative for oral administration at an exploratory stage of new drug development.

The hydrochloride form shows incompatibility with the excipients used for oral dosage forms. There are several crystal forms of the free base, namely, alpha-anhydrate, beta-anhydrate, monohydrate, and trihydrate. The trihydrate form is unstable. The degree of crystallinity of the beta-anhydrate form is difficult to control. The monohydrate form is difficult to manufacture with constant quality. The serum levels of the compounds in rats are almost related to the dissolution rates in the JP 1st disintegration medium from the discs. The serum level of alpha-anhydrate is the lowest[1].

[1]. Morita M, et al. Preliminary preformulation studies of a 2-(3,4-dimethoxyphenyl)ethylamine derivative for oral administration at an exploratory stage of new drug development. Chem Pharm Bull (Tokyo). 1995 Mar;43(3):476-82.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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