

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

Tranilast

Product overview

Name	Tranilast
Cat No	HB1201
Biological action	Inhibitor
Purity	>99%
Description	TRPV2 channel inhibitor. Potent mast cell stabilizer.

Images



Biological Data

Biological description	TRPV2 channel inhibitor and potent mast cell stabilizer. Also inhibits angiotensin-II induced contractions ($IC_{50} = 36 \mu M$). Inhibits reactive oxygen species, cytokines, leukotrienes and prostaglandin release. Displays antiallergic, antiapoptotic and anti-inflammatory properties. Blood brain barrier permeable.
-------------------------------	---

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-[[3-(3,4-Dimethoxyphenyl)-1-oxo-2-propenyl]amino]benzoic acid
Molecular Weight	327.34
Chemical structure	The chemical structure of Tranilast is shown, consisting of a 3,4-dimethoxyphenyl group connected via a propenal chain to an amino group, which is further connected to a benzoic acid moiety.
Molecular Formula	$C_{18}H_{17}NO_5$
CAS Number	53902-12-8

PubChem identifier	5282230
SMILES	<chem>COC1=C(C=C(C=C1))/C=C/C(=O)NC2=CC=CC=C2C(=O)O)OC</chem>
InChi	InChI=1S/C18H17NO5/c1-23-15-9-7-12(11-16(15)24-2)8-10-17(20)19-14-6-4-3-5-13(14)18(21)22/h3-11H,1-2H3,(H,19,20)(H,21,22)/b10-8+
InChiKey	NZHGWWWHIYHZNX-CSKARUKUSA-N
MDL number	MFCD00864787

References

Tranilast increases vasodilator response to acetylcholine in rat mesenteric resistance arteries through increased EDHF participation.

Xavier FE *et al* (2014) PLoS One 9(7)

PubMedID [24992476](#)

Tranilast, an anti-allergic drug, possesses antagonistic potency to angiotensin II.

Jin D *et al* (1998) Eur J Pharmacol 361(2-3)

PubMedID [9865509](#)

Regulation of calcium-permeable TRPV2 channel by insulin in pancreatic beta-cells.

Hisanaga E *et al* (2009) Diabetes 58(1)

PubMedID [18984736](#)

Tranilast binds to a β monomers and promotes a β fibrillation.

Connors CR *et al* (2013) Biochemistry 52(23)

PubMedID [23679559](#)
