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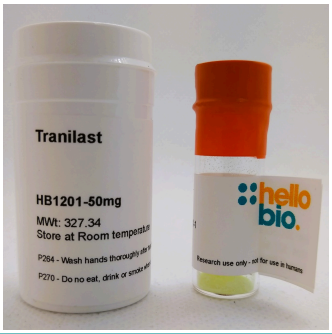
# DATASHEET

Tranilast

## Product overview

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

## Images




## Biological Data

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

## Solubility & Handling

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| **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

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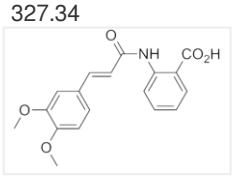
| **Chemical name** | 2-[[3-(3,4-Dimethoxyphenyl)-1-oxo-2-propenyl]amino]benzoic acid |
| **Molecular Weight** | 327.34 |
| **Chemical structure** |  |
| **Molecular Formula** | $C_{18}H_{17}NO_5$ |
| **CAS Number** | 53902-12-8 |

| | |
|---|---|
| **PubChem identifier** | 5282230 |
| **SMILES** | COC1=C(C=C(C=C1)/C=C/C(=O)NC2=CC=CC=C2C(=O)O)OC |
| **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 aβ monomers and promotes aβ fibrillation.**

Connors CR *et al* (2013) Biochemistry 52(23)
**PubMedID** 23679559