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## DATASHEET

Tranilast

### Product overview

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

### Images



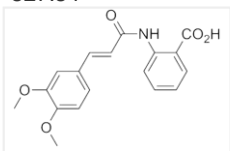
### Biological Data

|                               |                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | 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

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

### Chemical Data

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 2-[[3-(3,4-Dimethoxyphenyl)-1-oxo-2-propenyl]amino]benzoic acid                     |
| <b>Molecular Weight</b>   | 327.34                                                                              |
| <b>Chemical structure</b> |  |

|                          |                    |
|--------------------------|--------------------|
| <b>Molecular Formula</b> | $C_{18}H_{17}NO_5$ |
| <b>CAS Number</b>        | 53902-12-8         |

|                           |                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 2-[[3-(3,4-Dimethoxyphenyl)-1-oxo-2-propenyl]amino]benzoic acid                                                                 |
| <b>PubChem identifier</b> | 5282230                                                                                                                         |
| <b>SMILES</b>             | <chem>COC1=C(C=C(C=C1)/C=C/C(=O)NC2=CC=CC=C2C(=O)O)OC</chem>                                                                    |
| <b>InChi</b>              | 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+ |
| <b>InChiKey</b>           | NZHGWWWHIYHZNX-CSKARUKUSA-N                                                                                                     |
| <b>MDL number</b>         | MFCD00864787                                                                                                                    |

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## 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](#)

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