



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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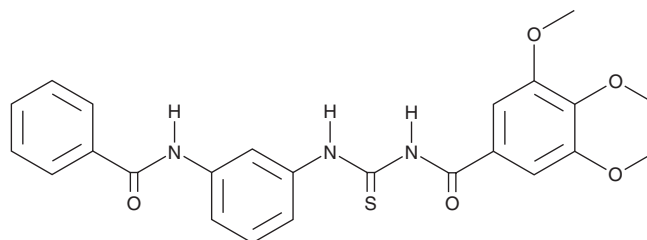
# PRODUCT INFORMATION



## MRT10

Item No. 22138

**CAS Registry No.:** 330829-30-6  
**Formal Name:** N-[[[3-(benzoylamino)phenyl]amino]thioxomethyl]-3,4,5-trimethoxy-benzamide  
**MF:** C<sub>24</sub>H<sub>23</sub>N<sub>3</sub>O<sub>5</sub>S  
**FW:** 465.5  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 284 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

MRT10 is supplied as a crystalline solid. A stock solution may be made by dissolving the MRT10 in the solvent of choice. MRT10 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of MRT10 in these solvents is approximately 33 mg/ml.

MRT10 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MRT10 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. MRT10 has a solubility of approximately 0.3 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

MRT10 is an antagonist of the Smoothed (Smo) receptor with an IC<sub>50</sub> value of 0.64 μM in a luciferase reporter assay.<sup>1,2</sup> It also inhibits boppy-cyclopamine binding to the murine Smo receptor (IC<sub>50</sub> = 0.5 μM) when expressed in HEK293 cells.<sup>1</sup>

### References

1. Manetti, F., Faure, H., Roudaut, H., *et al.* Virtual screening-based discovery and mechanistic characterization of the acylthiourea MRT-10 family as smoothed antagonists. *Mol. Pharm.* **78(4)**, 658-665 (2010).
2. Solinas, A., Faure, H., Roudaut, H., *et al.* Acylthiourea, acylurea, and acylguanidine derivatives with potent hedgehog inhibiting activity. *J. Med. Chem.* **55(4)**, 1559-1571 (2012).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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