



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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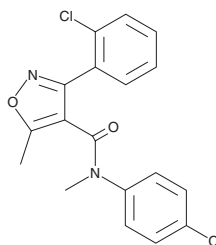
# PRODUCT INFORMATION



## TGR5 Receptor Agonist

Item No. 16291

**CAS Registry No.:** 1197300-24-5  
**Formal Name:** 3-(2-chlorophenyl)-N-(4-chlorophenyl)-N,5-dimethyl-4-isoxazolecarboxamide  
**MF:** C<sub>18</sub>H<sub>14</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub>  
**FW:** 361.2  
**Purity:** ≥98%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years



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

### Laboratory Procedures

TGR5 receptor agonist is supplied as a crystalline solid. A stock solution may be made by dissolving the TGR5 receptor agonist in the solvent of choice, which should be purged with an inert gas. TGR5 receptor agonist is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of TGR5 receptor agonist in ethanol is approximately 30 mg/ml and approximately 50 mg/ml in DMSO and DMF.

TGR5 receptor agonist is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, TGR5 receptor agonist should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. TGR5 receptor agonist has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

TGR5 receptor agonist is an agonist of the bile acid G protein-coupled receptor TGR5 (EC<sub>50</sub>s = 31.6-158.5 nM in cell-based assays).<sup>1</sup> It stimulates cAMP formation in HEK293 cells expressing TGR5 (EC<sub>50</sub> = 2.3 pM).<sup>2</sup> TGR5 receptor agonist (1 mg/kg) increases glucagon-like peptide 1 (GLP-1) secretion and decreases glucose levels in the hepatic portal vein in dogs when administered in combination with glucose.<sup>1</sup> It also inhibits the cytochrome P450 (CYP) isozymes CYP2C19 and CYP3A4 (IC<sub>50</sub>s = 316.2 and 1,259 nM, respectively).

### References

1. Evans, K.A., Budzik, B.W., Ross, S.A., et al. Discovery of 3-aryl-4-isoxazolecarboxamides as TGR5 receptor agonists. *J. Med. Chem.* **52**(24), 7962-7965 (2009).
2. Jensen, D.D., Godfrey, C.B., Niklas, C., et al. The bile acid receptor TGR5 does not interact with  $\beta$ -arrestins or traffic to endosomes but transmits sustained signals from plasma membrane rafts. *J. Biol. Chem.* **288**(32), 22942-22960 (2013).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

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