



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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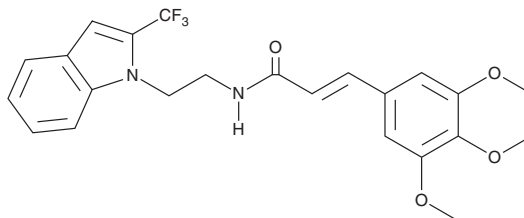
# PRODUCT INFORMATION



## TG6-10-1

Item No. 23444

**CAS Registry No.:** 1415716-58-3  
**Formal Name:** (2E)-N-[2-[2-(trifluoromethyl)-1H-indol-1-yl]ethyl]-3-(3,4,5-trimethoxyphenyl)-2-propenamide  
**MF:** C<sub>23</sub>H<sub>23</sub>F<sub>3</sub>N<sub>2</sub>O<sub>4</sub>  
**FW:** 448.4  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 216, 272, 300 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

TG6-10-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the TG6-10-1 in the solvent of choice. TG6-10-1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of TG6-10-1 in these solvents is approximately 5, 30, and 50 mg/ml, respectively.

### Description

TG6-10-1 is a potent antagonist of E prostanoid receptor 2 (EP<sub>2</sub>; K<sub>b</sub> = 17.8 nM in C6 glioma cells overexpressing human EP<sub>2</sub>).<sup>1</sup> It is 300-, 25-, and 10-fold selective for EP<sub>2</sub> over other prostanoid receptors, including human EP<sub>3-4</sub>, FP and TP, and DP<sub>1</sub> receptors, respectively. TG6-10-1 is also selective for EP<sub>2</sub> over a panel of 40 enzymes, ion channels, receptors, and neurotransmitter transporters (IC<sub>50</sub>s >10 μM). *In vivo*, TG6-10-1 increases survival, decreases weight loss, prevents induction of IL-1β, IL-6, TNF-α, and MCP-1/CCL2 mRNA, and inhibits neuronal cell death in the hippocampus in mouse and rat models of status epilepticus induced by pilocarpine (Item No. 14487) and diisopropyl fluorophosphate, respectively.<sup>1,2</sup>

### References

1. Jiang, J., Quan, Y., Ganesh, T., *et al.* Inhibition of the prostaglandin receptor EP2 following status epilepticus reduces delayed mortality and brain inflammation. *Proc. Natl. Acad. Sci. U.S.A.* **110(9)**, 3591-3596 (2013).
2. Rojas, A., Ganesh, T., Lelutiu, N., *et al.* Inhibition of the prostaglandin EP2 receptor is neuroprotective and accelerates functional recovery in a rat model of organophosphorus induced status epilepticus. *Neuropharmacology* **93**, 15-27 (2015).

#### 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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