



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## EP<sub>4</sub> Antagonist 14

Item No. 38427

**Formal Name:** 4-((2-(4-(trifluoromethyl)benzyl)-2H-indazole-3-carboxamido)methyl)benzoic acid

**Synonyms:** PGE<sub>2</sub> Receptor 4 Antagonist 14, Prostaglandin E<sub>2</sub> Receptor 4 Antagonist 14

**MF:** C<sub>24</sub>H<sub>18</sub>F<sub>3</sub>N<sub>3</sub>O<sub>3</sub>

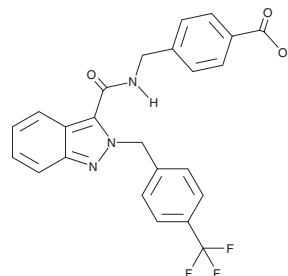
**FW:** 453.4

**Purity:** ≥95%

**Supplied as:** A solid

**Storage:** -20°C

**Stability:** ≥3 years



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

### Laboratory Procedures

EP<sub>4</sub> antagonist 14 is supplied as a solid. A stock solution may be made by dissolving the EP<sub>4</sub> antagonist 14 in the solvent of choice, which should be purged with an inert gas. EP<sub>4</sub> antagonist 14 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of EP<sub>4</sub> antagonist 14 in these solvents is approximately 20 mg/ml.

### Description

EP<sub>4</sub> antagonist 14 is an antagonist of the prostaglandin E<sub>2</sub> (PGE<sub>2</sub>) receptor subtype EP<sub>4</sub> with an IC<sub>50</sub> value of 1.1 nM in a reporter assay using HEK293 cells expressing the human receptor.<sup>1</sup> It inhibits PGE<sub>2</sub>-induced β-arrestin recruitment in the same cells (IC<sub>50</sub> = 0.9 nM). EP<sub>4</sub> antagonist 14 (10 μM) decreases PGE<sub>2</sub>-induced expression of mRNA encoding Il-4, macrophage mannose receptor 1 (Mrc1), chitinase-like protein 3 (Chil3), chemokine (C-X-C) motif ligand 1 (Cxcl1), triggering receptor expressed on myeloid cells 2 (Trem2), and arginase-1 (Arg1), in RAW 264.7 macrophages. *In vivo*, EP<sub>4</sub> antagonist 14 (30 mg/kg per day), in combination with an anti-PD-1 antibody, inhibits tumor growth and increases infiltration of CD8<sup>+</sup> T cells into tumors in a CT26 murine colon cancer model.

### Reference

1. Cheng, Z., Wang, Y., Zhang, Y., *et al.* Discovery of 2H-indazole-3-carboxamide derivatives as novel potent prostanoid EP4 receptor antagonists for colorectal cancer immunotherapy. *J. Med. Chem.* **66**(9), 6218-6238 (2023).

#### 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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