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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Eltrombopag

Item No. 13247

CAS Registry No.: 496775-61-2

Formal Name: 3'-[2-[(2Z)-1-(3,4-dimethylphenyl)-1,5-dihydro-3-methyl-5-oxo-4H-pyrazol-4-ylidene]hydrazinyl]-2'-hydroxy-[1,1'-biphenyl]-3-carboxylic acid

Synonym: SB 497115

MF: C₂₅H₂₂N₄O₄

FW: 442.5

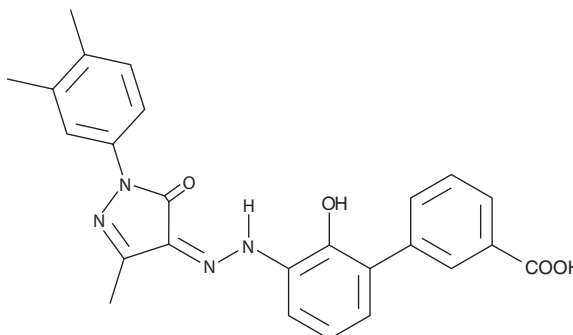
Purity: ≥98%

UV/Vis.: λ_{max}: 248, 417 nm

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

Eltrombopag is supplied as a crystalline solid. A stock solution may be made by dissolving the eltrombopag in the solvent of choice, which should be purged with an inert gas. Eltrombopag is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of eltrombopag in these solvents is approximately 0.1, 20, and 1 mg/ml, respectively.

Eltrombopag is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, eltrombopag should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Eltrombopag has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Eltrombopag is an orally bioavailable nonpeptide agonist of the thrombopoietin receptor (EC₅₀ = 0.27 μM in a reporter assay) and an iron chelator.¹ It increases STAT5 phosphorylation in N2C-Tpo cells when used at a concentration of 30 μM and p42/44 MAPK phosphorylation when used at 10 μM. Eltrombopag binds to the transmembrane domain of the thrombopoietin receptor and stimulates megakaryocytopoiesis in human primary bone marrow cells. It increases platelet production in chimpanzees when administered at a dose of 10 mg/kg per day for five days. Eltrombopag also binds to iron (III) and mobilizes cellular iron and ferritin in H9C2, Huh7, and RINm5F cells in a concentration-dependent manner.² It enhances cellular iron mobilization when used in combination with the iron chelators deferasirox (Item No. 16753) and CP40.

Reference

1. Erickson-Miller, C.L., Delorme, E., Tian, S.-S., *et al.* Preclinical activity of eltrombopag (SB-497115), an oral, non-peptide thrombopoietin receptor agonist. *Stem Cells* **27**(2), 424-430 (2009).
2. Vlachodimitropoulou, E., Chen, Y.L., Garbowski, M., *et al.* Eltrombopag: a powerful chelator of cellular or extracellular iron(III) alone or combined with a second chelator. *Blood* **130**(17), 1923-1933 (2017).

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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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM