

Catalog # 10-3768 Eltrombopag

CAS# 496775-61-2 SB-497115

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

Lot # A109445



A novel, orally active, small molecule human thrombopoietin receptor (TPO-R) agonist, $EC_{50}=0.27 \ \mu M.^{1,2}$ Maintains human hematopoietic stem and progenitor cells under inflammatory conditions.³ Promotes DNA repair in human hematopoietic stem and progenitor cells.⁴ Acts as a powerful chelator of cellular and extracellular iron(III).⁵ Stimulates hematopoietic stem cells via a TPO-R-independent mechanism involving iron chelation.⁶

- 1) Xie et al. (2018), Pharmacological characterization of hetrombopag, a novel orally active human thrombopoietin receptor agoinst; J. Cell. Mol. Med., **22** 5367
- 2) Erickson-Miller et al. (2008), Preclinical activity of eltrombopag (SB-497115), an oral, nonpeptide thrombopoietin receptor agonist; Stem Cells, 27 424
- 3) Alvarado et al. (2019), Eltrombopag maintains human hematopoietic stem and progenitor cells under inflammatory conditions mediated by IFN- γ ; Blood, **133** 2043
- 4) Guenther et al. (2019), Eltrombopag promotes DNA repair in human hematopoietic stem and progenitor cells; Exp. Hematol. 73 1
- 5) Vlachodimitropoulou et al. (2017), Eltrombopag: a powerful chelator of cellular or extracellular iron (II) alone or combined with a second chelator, Blood, **130** 1923
- 6) Kao et al. (2018), thrombopoietin receptor-independent stimulation of hematopoietic stem cells by eltrombopag; Science Transl. Med., **10** eaas9563

PHYSICAL DATA

Molecular Weight:	442.47
Molecular Formula:	$C_{25}H_{22}N_4O_4$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 55 mg/ml) or Ethanol (up to 14 mg/ml)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in
	DMSO or ethanol may be stored at -20°C for up to 3 months.

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