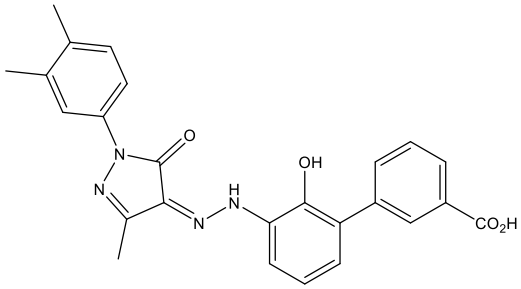
Catalog # 10-3768
Eltrombopag

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 μM.[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 agonist*; 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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