Phone: 888-558-5227

651-644-8424 Email: getinfo@lktlabs.com

888-558-7329 Fax:

Web: lktlabs.com

Product Information

Product ID T3468 CAS No. 27314-97-2

Chemical Name

Synonym SR 4233

Formula C₇H₆N₄O₂ Formula Wt. 178.15

Melting Point

Purity ≥98% Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
T3468	10 mg	\$66.90
T3468	25 mg	\$133.90
T3468	100 ma	\$374.60

Store Temp Ambient Ship Temp Ambient

Description Tirapazamine is an anticancer chemotherapeutic compound currently in clinical trials co-administered with cisplatin or radiation as a potential treatment for several cancers. Tirapazamine inhibits DNA topoisomerase IIα and modulates replication protein A (RPA), inhibiting DNA replication. Tirapazamine also forms DNA damaging free radicals, inducing single- and doublestranded DNA breaks. Additionally, tirapazamine inhibits expression of HIF- 1α , potentially through modulation of eukaryotic initiation factor eIF2a phosphorylation. This compound induces apoptosis in neuroblastoma cells, decreasing the mitochondrial membrane potential and levels of glutathione; this effect may be p53-dependent.

References Zhang J, Cao J, Weng Q, et al. Suppression of hypoxia-inducible factor 1α (HIF- 1α) by tirapazamine is dependent on eIF2α phosphorylation rather than the mTORC1/4E-BP1 pathway. PLoS One. 2010 Nov 9;5(11):e13910. PMID: 21085474.

> Yang B, Reynolds CP. Tirapazamine cytotoxicity for neuroblastoma is p53 dependent. Clin Cancer Res. 2005 Apr 1;11(7):2774-80. PMID: 15814660.

Peters KB, Wang H, Brown JM, et al. Inhibition of DNA replication by tirapazamine. Cancer Res. 2001 Jul 15;61 (14):5425-31. PMID: 11454687.

Brown JM, Wang LH. Tirapazamine: laboratory data relevant to clinical activity. Anticancer Drug Des. 1998 Sep;13(6):529-39. PMID: 9755717.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.