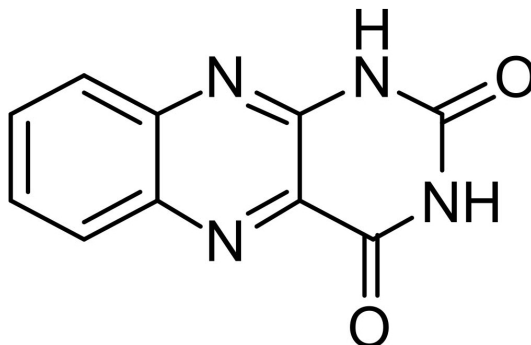


Alloxazine

Code No.: BIA-A2580

Pack sizes.: 25mg, 100mg



Synonyms:

2,4-Dioxobenzo[g]pteridine, 6,7-Benzolumazine, Benzo[g]pteridine-2,4(3H,10H)-dione, Flavoquinone, Isoalloxazine, NSC 203056, NSC 402746

Specifications

CAS #	: 490-59-5
Molecular Formula	: C10H6N4O2
Molecular Weight	: 214.18
Source	: -
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Alloxazine, the tautomer of isoalloxazine which forms the backbone of vitamin B2, is selective adenosine A2B receptor antagonist. Alloxazine has been used as a scaffold for the design of new and selective kinase inhibitors as antitumor actives. Alloxazine has anti-inflammatory and antinociceptive effects in vitro.

References

1. Adenosine A2a and A2b receptors in cultured fetal chick heart cells. High- and low-affinity coupling to stimulation of myocyte contractility and cAMP accumulation. Liang B.T. et al. Circ. Res. 1995, 76, 242.
2. Functional characterization of the A2b adenosine receptor in NIH 3T3 fibroblasts. Brackett LE. and Daly J.W. Biochem. Pharmacol. 1994, 47, 801.
3. Structural-based design, synthesis, and antitumor activity of novel alloxazine analogues with potential selective kinase inhibition. Malki W.H. et al. Eur J Med Chem 2018, 152, 31.