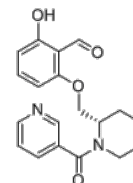


**Product Name** : GBT1118  
**Cat. No.** : PC-47075  
**CAS No.** : 1628799-51-8  
**Molecular Formula** : C<sub>19</sub>H<sub>20</sub>N<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 340.379  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

GBT1118 is a potent, orally bioavailable allosteric modifier of **hemoglobin** O<sub>2</sub> affinity, binds covalently and reversibly via an imine intermediate to the NH<sub>2</sub>-terminal valine of the Hb α-chain.

GBT1118 increased Hb O<sub>2</sub> affinity and decreased the P<sub>o2</sub> during hypoxia in awake-instrumented mice.

GBT1118 significantly attenuated bleomycin-induced lung fibrosis, collagen accumulation, body weight loss, and leukocyte infiltration in a bleomycin-induced mouse model of hypoxemia and fibrosis.

GBT1118 significantly improved tolerance to hypoxia in sickle cell mice.

## References

Geng X, et al. *Physiol Rep.* 2016 Sep;4(17):e12965.

Dufu K, et al. *Am J Physiol Heart Circ Physiol.* 2017 Aug 1;313(2):H381-H391.

Dufu K, et al. *Am J Physiol Heart Circ Physiol.* 2021 Aug 1;321(2):H400-H411.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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