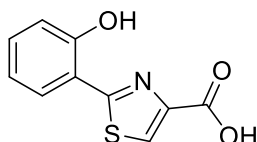


Aeruginoic acid

Code No.: **BIA-A1391**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 27501-91-3
Molecular Formula	: C₁₀H₇NO₃S
Molecular Weight	: 221.2
Source	: <i>Pseudomonas aeruginosa</i>
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Aeruginoic acid (2-(2-hydroxyphenyl)-4-thiazolecarboxylic acid) is a siderophore produced by *Pseudomonas aeruginosa*. Aeruginoic acid has antimicrobial, anti-inflammatory and hypotensive activity. Aeruginoic acid is a shunt product in the pyochelin biosynthesis pathway observed in *Pseudomonas* and *Burkholderia* spp.

References

1. Structure and synthesis of aeruginoic acid (2-o-hydroxyphenylthiazole-4-carboxylic acid). Yamada Y. et al. *Agric Biol Chem.* 1970, 34, 780.
2. Aeruginoic acid. Imai T. et al. DE2045819 A 1971-04-08.
3. Metabolomic profiling of *Burkholderia cenocepacia* in synthetic cystic fibrosis sputum medium reveals nutrient environment-specific production of virulence factors. Olakunle A. et al. *Sci Rep.* 2021, 11, 21419.