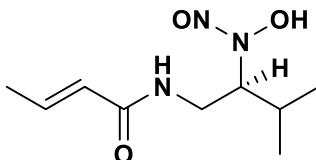


## PRODUCT DATA SHEET

Date: Jun 24, 2020

**Dopastin** (Inhibitor for dopamine  $\beta$ -hydroxylase )



Synonyms:

### Specifications

Code No.	: 00381
CAS#	: 37134-80-8
Molecular Formula	: C <sub>9</sub> H <sub>17</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight	: 215.253
Source	: <i>Pseudomonas</i> No. BAC-125
Appearance	: Colorless needle crystals
Purity	: > 90%
Long Term Storage	: at - 20 °C
Solubility	: Soluble in MeOH, Butanol, Acetone, CHCl <sub>3</sub> , Alkaline water Insoluble in water, Ethyl acetate, Ether, Hexane

### Application Notes

Dopastin produced by a *Pseudomonas* No.BAC-125 is a potent inhibitor of dopamine  $\beta$ -hydroxylase of beef adrenals, and its IC<sub>50</sub> value is  $4.7 \times 10^{-6}$  M.<sup>1)</sup> Dopastin shows a significant hypotensive effect to spontaneously hypertensive rats and a phytotoxicity to barley germination.<sup>2)</sup> Dopastin has low toxicity (oral LD<sub>50</sub>:750 mg/kg, i.p. LD<sub>50</sub>:460 mg/kg in mice), and the intravenous injection of 250 mg/kg killed no mice.<sup>1)</sup>

### References

- 1) Dopastin, an inhibitor of dopamine  $\beta$ -hydroxylase.  
Iinuma H, Takeuchi T, Kondo S, Matsuzaki M, Umezawa H, Ohno M.  
*J. Antibiot.* 1972, **25**, 497-500.
- 2) Biochemical and biological studies on dopastin, an inhibitor of dopamine  $\beta$ -Hydroxylase.  
Iinuma H, Matsuzaki M, Nagatsu T, Takeuchi T, Umezawa H.  
*Agr. Biol. Chem.* 1974, **38**, 2107-2111.