

## $\beta$ -Carboline 1-carboxylic acid

Code No.: **BIA-C1943**

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



Synonyms :

### Specifications

CAS #	:	<b>26052-96-0</b>
Molecular Formula	:	<b>C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub></b>
Molecular Weight	:	<b>212.2</b>
Source	:	<b><i>Quassia amara</i></b>
Appearance	:	<b>Off-white solid</b>
Purity	:	<b>&gt;95% by HPLC</b>
Long Term Storage	:	<b>-20°C</b>
Solubility	:	<b>Soluble in methanol or DMSO</b>

### Application Notes

$\beta$ -Carboline 1-carboxylic acid, isolated from *Quassia amara*, displays antineuroinflammatory activity in lipopolysaccharide-induced BV2 microglial cells, inhibiting the production of nitric oxide and prostaglandin E2. Derivatives of  $\beta$ -carboline 1-carboxylic acid inhibit mitogen-activated protein kinase 2.  $\beta$ -Carboline 1-carboxylic acid is also formed endogenously from tryptophan.

### References

1. Anti-neuroinflammatory activities of indole alkaloids from kanjang (Korean fermented soy source) in lipopolysaccharide-induced BV2 microglial cells. Kim D-C. et al. Food Chem. 2016, 213, 69.
2. Novel tetrahydro-beta-carboline-1-carboxylic acids as inhibitors of mitogen activated protein kinase-activated protein kinase 2 (MK-2). Trujillo J.I. et al. Bioorg Med Chem Lett. 2007, 17, 4657.
3. Tetrahydro-beta-carboline-3-carboxylic acids and contaminants of L-tryptophan. Adachi A. et al. J Chromatogr A. 2000, 881, 501.