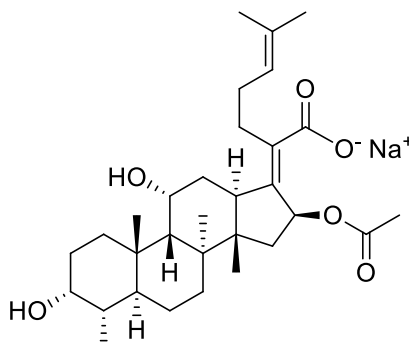


## Fusidate sodium

Code No.: **BIA-F1259**

Pack sizes: **25 mg, 100 mg**



Synonyms : Ramycin, NSC 56192, SQ 16603, SQ 16603

## Specifications

CAS #	: <b>751-94-0</b>
Molecular Formula	: <b>C<sub>31</sub>H<sub>47</sub>NaO<sub>6</sub></b>
Molecular Weight	: <b>538.7</b>
Source	: <b><i>Fusidium coccineum</i></b>
Appearance	: <b>White to off white powder</b>
Purity	: <b>&gt;98% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.</b>

## Application Notes

Sodium fusidate is the more water soluble sodium salt of fusidic acid, a steroidal metabolite of *Fusidium coccineum* which is a potent Gram positive antibiotic. Fusidic acid inhibits protein synthesis in prokaryotes by inhibiting the ribosome-dependent activity of G factor and translocation of peptidyl-tRNA. Fusidic acid also suppresses NO lysis of pancreatic islet cells.

## References

1. Fusidic acid: a new antibiotic. Godtfredson W. O. et al., Nature 1962, 193, 987.
2. On the mode of action of fusidic acid. Harvey C. L. et al., Biochemistry 1969, 5, 3320.
3. Mechanism of protein synthesis inhibition by fusidic acid and related antibiotics. Tanaka N. et al., BBRC 1968, 30, 278.
4. Fusidic acid suppresses nitric oxide toxicity in pancreatic islet cells. Burkart V. et al., Biochem. Pharmacol. 1994, 48, 1379 .