

Product Information

Sugammadex sodium, Purity $\geq 98\%$

Cat. No.: X24-09-YM1375

Size: 10 mg; 25 mg; 50 mg; 100 mg

CAS Number: 343306-79-6

Compound CID: 6918584

Synonym: 343306-79-6; Org25969; Org-25969; Org 25969; 361LPM2T56;

Octasodium;

3-[[[(1S,3S,5S,6S,8S,10S,11S,13S,15S,16S,18S,20S,21S,23S,25S,26S,28S,30S

,31S,33S,35S,36S,38S,40S,41R,42R,43R,44R,45R,46R,47R,48R,49R,50R,51R

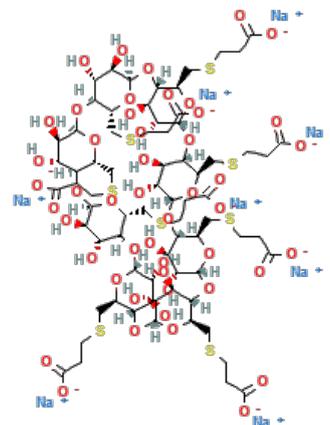
,52R,53R,54R,55R,56R

)-10,15,20,25,30,35,40-heptakis(2-carboxylatoethylsulfanylmethyl)-41,42,43,44,45,46,

47,48,49,50,51,52,53,54,55,56-hexadecahydroxy-2,4,7,9,12,14,17,19,22,24,27,29,32,

34,37,39-hexadecaonanacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233

,36]hexapentacontan-5-yl]methylsulfanyl]propanoate



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Sugammadex sodium, insoluble in DMSO and ethanol and soluble in water, is an agent for the reversal of neuromuscular blockade. The molecular weight of the compound is 2177.97, and its molecular formula is $C_{72}H_{104}Na_8O_{48}S_8$.
Molecular Weight	2177.97
Molecular Formula	$C_{72}H_{104}Na_8O_{48}S_8$
IUPAC Name	Octasodium;3-[[[(1S,3S,5S,6S,8S,10S,11S,13S,15S,16S,18S,20S,21S,23S,25S,26S,28S,30S,31S,33S,35S,36S,38S,40S,41R,42R,43R,44R,45R,46R,47R,48R,49R,50R,51R,52R,53R,54R,55R,56R)-10,15,20,25,30,35,40-heptakis(2-carboxylatoethylsulfanylmethyl)-41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56-hexadecahydroxy-2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-hexadecaonanacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontan-5-yl]methylsulfanyl]propanoate
InChI	InChI=1S/C72H112O48S8.8Na/c73-33(74)1-9-121-17-25-57-41(89)49(97)65(105-25)114-58-26(18-122-10-2-34(75)76)107-67(51(99)43(58)91)116-60-28(20-124-12-4-36(79)80)109-69(53(101)45(60)93)118-62-30(22-126-14-6-38(83)84)111-71(55(103)47(62)95)120-64-32(24-128-16-8-40(87)88)112-72(56(104)48(64)96)119-63-31(23-127-15-7-39(85)86)110-70(54(102)46(63)94)117-61-29(21-125-

13-5-37(81)82)108-68(52(100)44(61)92)115-59-27(19-123-11-3-35(77)78)106-66(113-57)50(98)42(59)90;;;;;;/h25-32,41-72,89-104H,1-24H2,(H,73,74)(H,75,76)(H,77,78)(H,79,80)(H,81,82)(H,83,84)(H,85,86)(H,87,88);;;;;;/q;8*+1/p-8/t25-,26-,27-,28-,29-,30-,31-,32-,41-,42-,43-,44-,45-,46-,47-,48-,49-,50-,51-,52-,53-,54-,55-,56-,57-,58-,59-,60-,61-,62-,63-,64-,65-,66-,67-,68-,69-,70-,71-,72-;;;;;;/m1../s1

InChI Key	KMGKABOMYQLLDJ-VKHHSAQNSA-F
Canonical SMILES	<chem>C(CSCC1C2C(C(C(O1)OC3C(OC(C(C3O)O)OC4C(OC(C(C4O)O)OC5C(OC(C(C5O)O)OC6C(OC(C(C6O)O)OC7C(OC(C(C7O)O)OC8C(OC(C(C8O)O)OC9C(OC(O2)C(C9O)O)CSCCC(=O)[O-])CSCC(=O)[O-])CSCCC(=O)[O-])CSCCC(=O)[O-])CSCCC(=O)[O-])CSCCC(=O)[O-])CSCCC(=O)[O-])O)C(=O)[O-].[Na+].[Na+].[Na+].[Na+].[Na+].[Na+].[Na+].[Na+]</chem>
Isomeric SMILES	<chem>C[C@@]12[C@](C[C@@H](O1)N3C4=CC=CC=C4C5=C6C(=C7C8=CC=CC=C8N2C7=C53)CN(C6=O)C)(C(=O)OC)OC</chem>
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: insoluble; Water: 96 mg/mL (44.07 mM); Ethanol: insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Sugammadex sodium plays a key role in encapsulating neuromuscular blocking agents like rocuronium and vecuronium, thus reversing their effects.
Storage	Store at -20°C, and keep desiccated.