

## Tacrolimus Analogue Set

Code No.: **BIA-MS5006**

### Specifications

Each set contains 1 x 1mg vial of each of the following products:

Vial #	Compound	Code No.	CAS #	Mol. Formula	Mol. Wt.
1	Tacrolimus	BIA-T1184	104987-11-3	C <sub>44</sub> H <sub>69</sub> NO <sub>12</sub>	804.0
2	Ascomycin	BIA-A1237	104987-12-4	C <sub>43</sub> H <sub>69</sub> NO <sub>12</sub>	792.0
3	Everolimus	BIA-E1384	159351-69-6	C <sub>53</sub> H <sub>83</sub> NO <sub>14</sub>	954.2
4	Pimecrolimus	BIA-P1385	137071-32-0	C <sub>43</sub> H <sub>68</sub> ClNO <sub>11</sub>	810.5
5	Rapamycin	BIA-R1183	53123-88-9	C <sub>51</sub> H <sub>79</sub> NO <sub>13</sub>	914.2
6	Ridaforolimus	BIA-R1450	572924-54-0	C <sub>53</sub> H <sub>84</sub> NO <sub>14</sub> P	990.2
7	Temsirolimus	BIA-T1386	162635-04-3	C <sub>56</sub> H <sub>87</sub> NO <sub>16</sub>	1030.3
8	Umirolimus	BIA-U1383	851536-75-9	C <sub>55</sub> H <sub>87</sub> NO <sub>14</sub>	986.3
9	Zotarolimus	BIA-Z1387	221877-54-9	C <sub>52</sub> H <sub>79</sub> N <sub>5</sub> O <sub>12</sub>	966.2

- Long Term Storage : **-20°C, protect from light**
- Stability : **Stable for more than 1 year when stored at -20°C, protected from light**
- Short Term Storage : **Stable at ambient temperature for 1-2 weeks, protected from light**
- Shipping : **Ambient temperature**
- Purity : **Minimum purity of >95% by HPLC**
- Solubility : **Methanol, ethanol, DMSO, poor water solubility**

**Product Description:** Research on tacrolimus class of antibiotics spans 25 years. Each of the nine analogues in the Tacrolimus Analogue Set represent a pivotal advance in the development of the tacrolimus class, with the analogues displaying a range of physico-chemical and potency profiles. The Tacrolimus Analogue Set is a useful tool in addressing current research questions, using the resources accumulated since the discovery of tacrolimus in 1986 and recognising its relationship to the antifungal actives, ascomycin and rapamycin, discovered decades earlier.

Updated: 8 September 2014