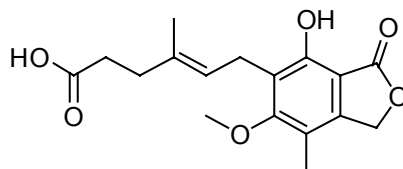


## Mycophenolic acid

Code: **BIA-M1207**

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



Synonyms : **Melbex, Lilly 68618, NSC 129185**

## Specifications

CAS #	: <b>24280-93-1</b>
Molecular Formula	: <b>C<sub>17</sub>H<sub>20</sub>O<sub>6</sub></b>
Molecular Weight	: <b>320.3</b>
Source	: <b><i>Penicillium</i> sp. MST-FP1988</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt; 99%</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility</b>

## Application Notes

Mycophenolic acid is a common *Penicillium* metabolite first reported in the 1930s as a possible mycotoxin. Re-investigation has shown mycophenolic acid to display a broad range of pharmacological activities including antitumor, antiviral, antifungal and antiprotozoan activities. However, it was the discovery that mycophenolic acid was a potent immunosuppressant, useful to prevent kidney transplant rejection, that led to its commercial development and that of related semi-synthetics as pharmaceuticals. Mycophenolic acid acts by inhibition of inosine monophosphate dehydrogenase, controlling the rate of *de novo* purine synthesis in the proliferation of B and T lymphocytes.

## References

1. Studies in the biochemistry of micro-organisms. The molecular constitution of the metabolic products of *Penicillium brevi-compactum* Dierckx and related species. II. Mycophenolic acid. Clutterbuck P.W. & Raistrick H., Biochem J. 1933, 27, 654.
2. Mycophenolic acid: An anti-cancer compound with unusual properties. Carter S. B. et al., Nature 1969, 223, 848.
3. Conformational changes and stabilization of inosine 5'-monophosphate dehydrogenase associated with ligand binding and inhibition by mycophenolic acid. Nimmesgern E. et al., J. Biol. Chem. 1996, 271, 19421.